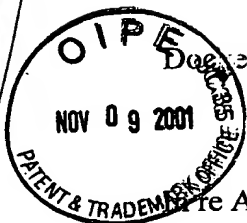


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Document No. 2306-4A

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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1/14/02

#4

Re Application of:

CLAUDE BERGERON

Serial No.: 09/916,835

Art Unit: ----

Filed: July 27, 2001

Examiner: ----

Title: PLASTIC RECYCLING

October 31, 2001

Honorable Commissioner of
Patents and Trademarks,
Washington, D.C. 20231

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CERTIFIED COPY OF PRIORITY DOCUMENT

S I R:

In the matter of the above identified application, Applicant herewith encloses a
Certified Copy of the priority documents, namely Canadian Patent Application Serial Number
2,332,189 filed January 24, 2001 and Canadian Patent Application Serial Number 2,333,248
filed January 30, 2001.

Respectfully,


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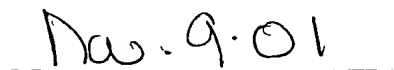

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This is to certify that the documents
attached hereto and identified below are
true copies of the documents on file in
the Patent Office.

Specification as originally filed, with Application for Patent Serial No: 2,333,248, on
January 30, 2001, by CLAUDE BERGERON for "Plastic Recycling".

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S. J. Gregoire
Agent certificateur/Certifying Officer

October 19, 2001

Date

Canada

(CIPO 68)
01-12-00

OPIC  CIPO

PLASTIC RECYCLING

The present invention relates to recycling and more particularly, relates to the recycling of plastic materials.

The recycling in glass materials has been widely practiced for a number of years. One of the glass materials widely used for reprocessing is that of windshields in automotive and like vehicles. In the recycling process, the glass is recovered. However, windshields usually have an intermediate layer of a plastic material which normally contains a polyvinyl butyral polymer. The polyvinyl butyral polymer may be in combination with other compounds such as tetraethylen-clycol.

During the recycling of the glass material, the plastic materials are eventually removed and stock piled. Accordingly, the stock pile of material presents a potential environmental hazard.

There is, therefore, in the art a requirement for a process to recycle the plastic material and to use the recycled plastic material.

The present invention has found that one may recycle the polyvinyl butyral material by dissolving the same in a solvent and which solvent is preferably selected from one acidic acid or combinations of acetone and other materials. In particular, a combination of acetone and isopropanol has been found to be suitable.

Following the treatment of the polyvinyl butyral with the solvent to achieve a solution having a desired consistency, it may subsequently be utilized as an adhesive in various wood products.

The recycled polyvinyl butyral may be, in preferred embodiments, used in composite wood products such as plywood, presswood, and the like.

In another aspect of the present invention, there is provided a method for replacing fossil fuels which comprises utilizing the plastic material forming the intermediate layer of the windshield as a replacement fuel. At the present time, much of this material is stored and accordingly, could become a readily utilizable fuel which could displace some of the unrefined fossil fuels. As such, the use of the material as a fuel would create substantially less pollution.

It will be understood that the above described embodiment is for purposes of illustration only and that changes or modifications may be made thereto without departing from the spirit and scope of the invention.

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